



Digital module, 4 inputs and 2 relay outputs, input voltage 24 V DC, relay outputs monostable, max. 2 digital modules, for SIMOCODE pro V basic unit

|                                                                             |                                                                                                                                                                                    |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                                          | SIMOCODE                                                                                                                                                                           |
| product designation                                                         | digital modules                                                                                                                                                                    |
| product type designation                                                    | DM mono                                                                                                                                                                            |
| <b>General technical data</b>                                               |                                                                                                                                                                                    |
| product component                                                           |                                                                                                                                                                                    |
| • input for thermistor connection                                           | No                                                                                                                                                                                 |
| • digital input                                                             | Yes                                                                                                                                                                                |
| • input for analog temperature sensors                                      | No                                                                                                                                                                                 |
| • input for ground fault detection                                          | No                                                                                                                                                                                 |
| • relay output                                                              | Yes                                                                                                                                                                                |
| consumed active power                                                       | 0.7 W                                                                                                                                                                              |
| insulation voltage with degree of pollution 3 at AC rated value             | 300 V                                                                                                                                                                              |
| surge voltage resistance rated value                                        | 4 000 V                                                                                                                                                                            |
| shock resistance according to IEC 60068-2-27                                | 15 g / 11 ms                                                                                                                                                                       |
| vibration resistance according to IEC 60068-2-6                             | 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2 g                                                                                                                                               |
| switching capacity current of the NO contacts of the relay outputs at AC-15 |                                                                                                                                                                                    |
| • at 24 V                                                                   | 6 A                                                                                                                                                                                |
| • at 120 V                                                                  | 6 A                                                                                                                                                                                |
| • at 230 V                                                                  | 3 A                                                                                                                                                                                |
| switching capacity current of the NO contacts of the relay outputs at DC-13 |                                                                                                                                                                                    |
| • at 24 V                                                                   | 2 A                                                                                                                                                                                |
| • at 60 V                                                                   | 0.55 A                                                                                                                                                                             |
| • at 125 V                                                                  | 0.25 A                                                                                                                                                                             |
| mechanical service life (operating cycles) typical                          | 10 000 000                                                                                                                                                                         |
| electrical endurance (operating cycles) typical                             | 100 000                                                                                                                                                                            |
| reference code according to IEC 81346-2                                     | K                                                                                                                                                                                  |
| reference code according to IEC 81346-2:2019                                | K                                                                                                                                                                                  |
| continuous current of the NO contacts of the relay outputs                  |                                                                                                                                                                                    |
| • at 50 °C                                                                  | 6 A                                                                                                                                                                                |
| • at 60 °C                                                                  | 5 A                                                                                                                                                                                |
| Substance Prohibitance (day/month/year)                                     | 05/01/2012                                                                                                                                                                         |
| SVHC substance name                                                         | Lead CAS-No. 7439-92-1<br>Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1 |
| Net Weight                                                                  | 123.15 g                                                                                                                                                                           |
| <b>Electromagnetic compatibility</b>                                        |                                                                                                                                                                                    |
| EMC emitted interference according to IEC 60947-1                           | class A                                                                                                                                                                            |

|                                                                               |                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC immunity according to IEC 60947-1                                         | corresponds to degree of severity 3                                                                                                                                                                                                           |
| <b>conducted interference</b>                                                 |                                                                                                                                                                                                                                               |
| • due to burst according to IEC 61000-4-4                                     | 1 kV                                                                                                                                                                                                                                          |
| • due to conductor-earth surge according to IEC 61000-4-5                     | 2 kV                                                                                                                                                                                                                                          |
| • due to conductor-conductor surge according to IEC 61000-4-5                 | 1 kV                                                                                                                                                                                                                                          |
| • due to high-frequency radiation according to IEC 61000-4-6                  | 10 V                                                                                                                                                                                                                                          |
| <b>field-based interference according to IEC 61000-4-3</b>                    | 10 V/m                                                                                                                                                                                                                                        |
| <b>electrostatic discharge according to IEC 61000-4-2</b>                     | 6 kV contact discharge / 8 kV air discharge                                                                                                                                                                                                   |
| <b>conducted HF interference emissions according to CISPR11</b>               | corresponds to degree of severity A                                                                                                                                                                                                           |
| <b>field-bound HF interference emission according to CISPR11</b>              | corresponds to degree of severity A                                                                                                                                                                                                           |
| <b>Inputs/ Outputs</b>                                                        |                                                                                                                                                                                                                                               |
| <b>product function</b>                                                       |                                                                                                                                                                                                                                               |
| • parameterizable inputs                                                      | Yes                                                                                                                                                                                                                                           |
| • parameterizable outputs                                                     | Yes                                                                                                                                                                                                                                           |
| <b>number of inputs</b>                                                       | 4                                                                                                                                                                                                                                             |
| <b>number of digital inputs</b>                                               | 4                                                                                                                                                                                                                                             |
| • with a common reference potential                                           | 4                                                                                                                                                                                                                                             |
| <b>digital input version</b>                                                  |                                                                                                                                                                                                                                               |
| • type 1 acc. to IEC 61131                                                    | No                                                                                                                                                                                                                                            |
| • type 2 acc. to IEC 61131                                                    | Yes                                                                                                                                                                                                                                           |
| <b>number of analog inputs</b>                                                | 0                                                                                                                                                                                                                                             |
| input voltage at digital input at DC rated value                              | 24 V                                                                                                                                                                                                                                          |
| <b>number of outputs</b>                                                      | 2                                                                                                                                                                                                                                             |
| <b>number of semiconductor outputs</b>                                        | 0                                                                                                                                                                                                                                             |
| <b>number of outputs as contact-affected switching element</b>                | 2                                                                                                                                                                                                                                             |
| <b>number of analog outputs</b>                                               | 0                                                                                                                                                                                                                                             |
| <b>switching behavior</b>                                                     | monostable                                                                                                                                                                                                                                    |
| <b>property of contacts of the relay outputs</b>                              | Floating NO contacts (NC reaction parameterizable via internal signal conditioning), connected to common ground, can be freely assigned to the control functions (e.g. line, star (wye), delta contactor or signaling of the operating state) |
| <b>wire length for digital signals maximum</b>                                | 300 m                                                                                                                                                                                                                                         |
| <b>Installation/ mounting/ dimensions</b>                                     |                                                                                                                                                                                                                                               |
| <b>mounting position</b>                                                      | any                                                                                                                                                                                                                                           |
| <b>fastening method</b>                                                       | screw and snap-on mounting                                                                                                                                                                                                                    |
| <b>height</b>                                                                 | 92 mm                                                                                                                                                                                                                                         |
| <b>width</b>                                                                  | 22.5 mm                                                                                                                                                                                                                                       |
| <b>depth</b>                                                                  | 124 mm                                                                                                                                                                                                                                        |
| <b>required spacing</b>                                                       |                                                                                                                                                                                                                                               |
| • top                                                                         | 40 mm                                                                                                                                                                                                                                         |
| • bottom                                                                      | 40 mm                                                                                                                                                                                                                                         |
| • left                                                                        | 0 mm                                                                                                                                                                                                                                          |
| • right                                                                       | 0 mm                                                                                                                                                                                                                                          |
| <b>Connections/ Terminals</b>                                                 |                                                                                                                                                                                                                                               |
| <b>product component removable terminal for auxiliary and control circuit</b> | Yes                                                                                                                                                                                                                                           |
| type of electrical connection for auxiliary and control circuit               | screw-type terminals                                                                                                                                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                           |                                                                                                                                                                                                                                               |
| • solid                                                                       | 1x (0.5 ... 4.0mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )                                                                                                                                                                           |
| • finely stranded with core end processing                                    | 1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )                                                                                                                                                                          |
| • for AWG cables solid                                                        | 1x (20 ... 14), 2x (20 ... 16)                                                                                                                                                                                                                |
| • for AWG cables stranded                                                     | 1x (20 ... 12), 2x (20 ... 14)                                                                                                                                                                                                                |
| tightening torque with screw-type terminals                                   | 0.8 ... 1.2 N·m                                                                                                                                                                                                                               |
| tightening torque [lbf·in] with screw-type terminals                          | 7 ... 10.3 lbf·in                                                                                                                                                                                                                             |
| <b>Ambient conditions</b>                                                     |                                                                                                                                                                                                                                               |
| <b>installation altitude at height above sea level</b>                        |                                                                                                                                                                                                                                               |
| • 1 maximum                                                                   | 2 000 m                                                                                                                                                                                                                                       |
| • 2 maximum                                                                   | 3 000 m; max. +50 °C (no protective separation)                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• 3 maximum</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 000 m; max. +40 °C (no protective separation)                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>ambient temperature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during operation</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -25 ... +60 °C                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during storage</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -40 ... +80 °C                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during transport</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -40 ... +80 °C                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                         |                                                                                                                    |
| <b>environmental category</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during operation according to IEC 60721</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during storage according to IEC 60721</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• during transport according to IEC 60721</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                    |
| relative humidity during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5 ... 95 %                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                                                                                                                    |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B300 / R300                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                         |                                                                                                                    |
| <b>Short-circuit protection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| design of short-circuit protection per output                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I <sub>N</sub> < 500 A)                                                                                                                                                                                                                                                                                       |                                                                                                                                                                         |                                                                                                                    |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>touch protection against electrical shock</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | finger-safe                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                         |                                                                                                                    |
| <b>ATEX</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| certificate of suitability according to ATEX directive 2014/34/EU                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BVS 06 ATEX F001                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                         |                                                                                                                    |
| explosion device group and category according to ATEX directive 2014/34/EU                                                                                                                                                                                                                                                                                                                                                                                                                                                  | II (2) G, II (2 ) D, I (M2)                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                         |                                                                                                                    |
| <b>Galvanic isolation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>(electrically) protective separation according to IEC 60947-1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)                                                                                                                                                                                                                                  |                                                                                                                                                                         |                                                                                                                    |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DC                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                         |                                                                                                                    |
| <b>control supply voltage at DC rated value</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24 V                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                         |                                                                                                                    |
| <b>operating range factor control supply voltage rated value at DC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• initial value</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.8                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |                                                                                                                    |
| <ul style="list-style-type: none"><li>• full-scale value</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                         |                                                                                                                    |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <a href="#">Environmental Confirmations</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                         |                                                                                                                    |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>EMV</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>For use in hazardous locations</b>                                                                                                                                   |                                                                                                                    |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |
| <b>For use in hazardous locations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Test Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Maritime application</b>                                                                                                                                             | <b>other</b>                                                                                                       |
| <a href="#">Miscellaneous</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Type Test Certificates/Test Report</a>                                                                                                                                                                                                                                                                                                                                                                                      |   | <a href="#">Confirmation</a>  |
| <b>Industrial Communication</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                    |

## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7300-1AB00-0>

### Cax online generator

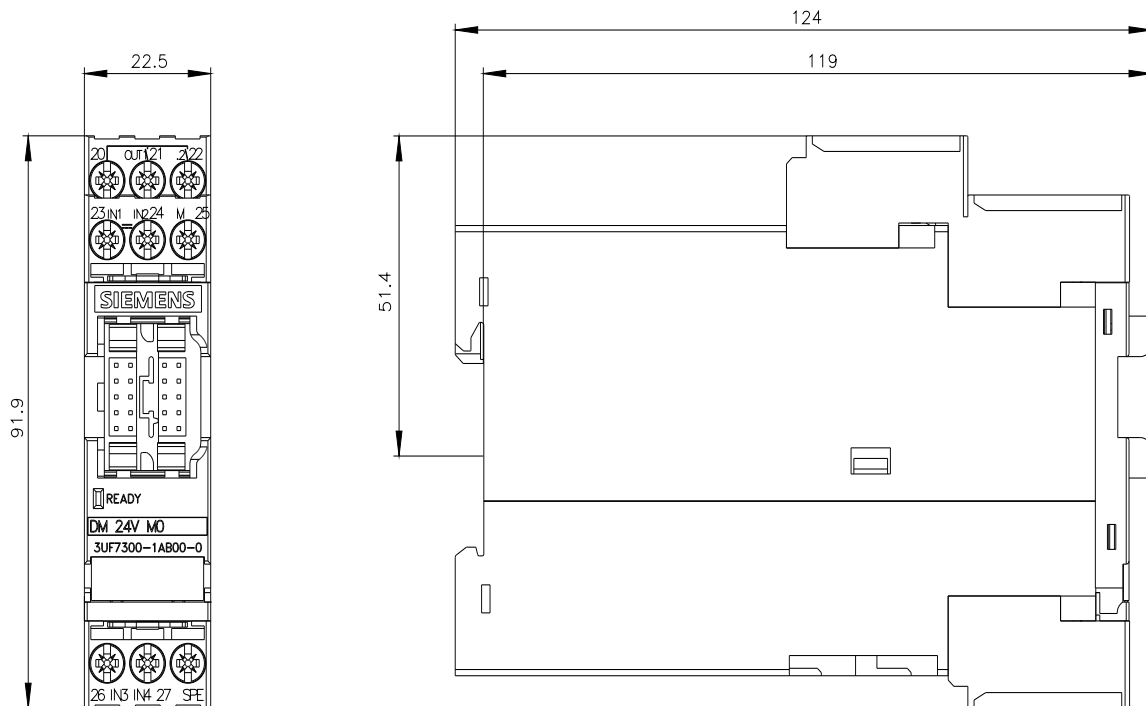
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7300-1AB00-0>

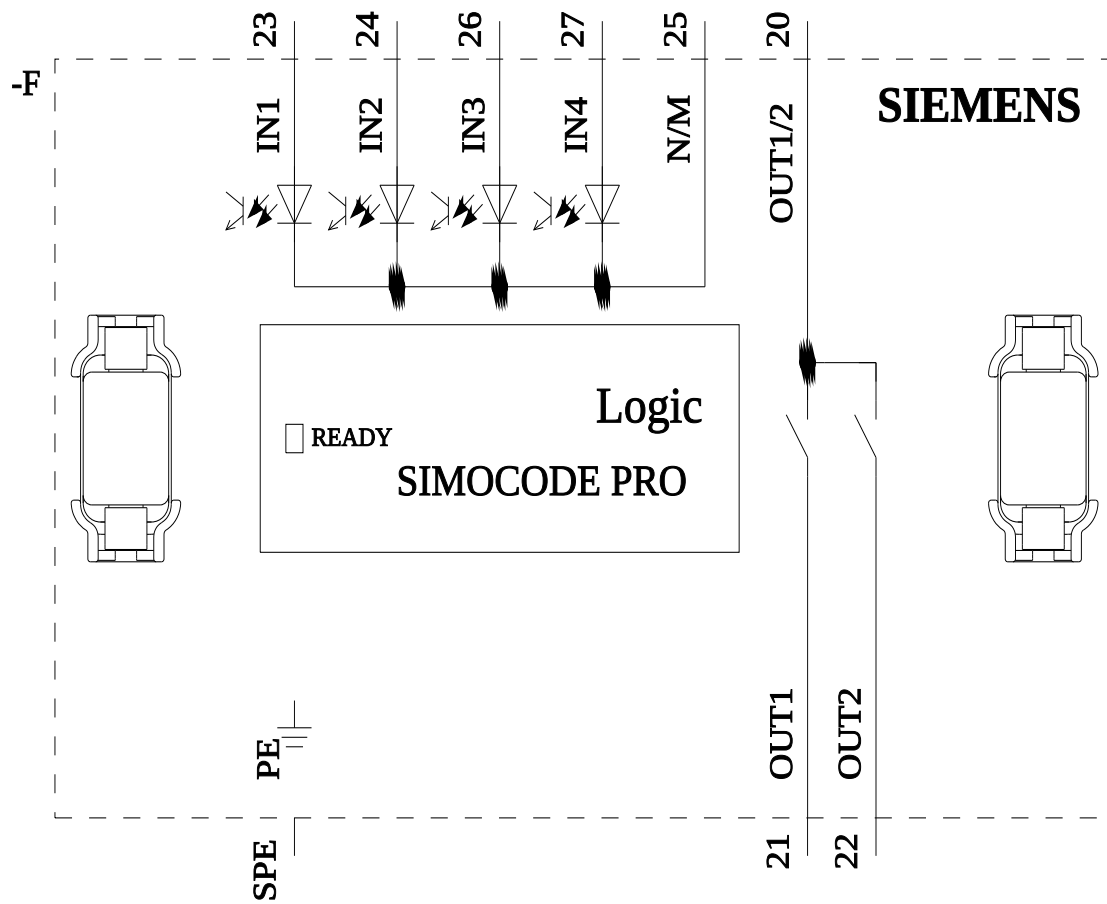
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7300-1AB00-0>

### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7300-1AB00-0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7300-1AB00-0&lang=en)





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